

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. § 371		Attorney's Docket Number 040894-7130
International Application. No.	International Filing Date	U.S. Application No. Unassigned <b>10/521774</b>
PCT/JP03/09202	July 18, 2003	Priority Date Claimed July 22, 2002

Title of Invention: HEAT EXCHANGER AND REACTOR AND RADIATION HEATER USING THE SAME

Applicant(s) For EO/EO/US: Akira OBUCHI, Junko UCHISAWA, Akihiko OOI, Tetsuya NAMBA, Norio NAKAYAMA, and Atsushi OGATA

Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. § 371.
3. ☐ This express request to begin national examination procedures (35 U.S.C. § 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. § 371(b) and PCT Articles 22 and 39(I).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. § 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ was transmitted by the International Bureau.
6. ☒ **A copy of the International Application as filed has been transmitted by the International Bureau.**
7. ☒ A translation of the International Application into English (35 U.S.C. § 371(c)(2)).
8. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. § 371(c)(3)).
10. ☒ An oath or declaration of the inventors (35 U.S.C. § 371(c)(4)).
11. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)).

Items 11. to 14. below concern other document(s) or information included:

12. ☐ An Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98.
13. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. § 3.28 and § 3.31 is included.
14. ☐ A FIRST preliminary amendment.
15. ☐ A SECOND or SUBSEQUENT preliminary amendment.
15. ☒ Other items or information:
  - a. PCT/RO/105    b. PCT/ISA/210
  - c. PCT/TO/101

U.S. APPLICATION NO. | INTERNATIONAL APPLICATION NO. | ATTORNEY DOCKET NUMBER

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Unassigned

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16. ☒ The following fees are submitted:  
**Basic National Fee (37 C.F.R. § 1.492(a)(1)-(5)):**

**NATIONAL STAGE BASIC FEE AMOUNT =** \$ 300.00

Surcharge of \$130.00 for furnishing the oath or declaration later than

☐ 20 ☒ 30 months from the earliest claimed priority date

(37 C.F.R. § 1.492(e)).

Claims	Number Filed	Number Extra	Rate	
Total Claims	21 - 20 =	1	X \$50.00	\$0.00
Independent Claims	5 - 3 =	2	X \$200.00	\$0.00
Multiple dependent claim(s) (if applicable)			+ \$360.00	\$0.00
Application Size Fee - \$250.00 for each additional 50 sheets that exceeds 100				\$
Search Fee			\$500.00	\$ 500.00
Examination Fee			\$200.00	\$ 200.00
<b>TOTAL OF ABOVE CALCULATIONS</b>				\$1,000.00
Reduction by ½ for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 C.F.R. §§ 1.9, 1.27, 1.28)				-\$
<b>SUBTOTAL =</b>				<b>\$ 1,000.00</b>
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. § 1.492(f)).				+\$
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 1,000.00</b>
Fee for recording the enclosed assignment (37 C.F.R. § 1.21(h)). The Assignment must be accompanied by an appropriate cover sheet (37 C.F.R. §§ 3.28, 3.31). \$40.00 per property				\$ 40.00
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 1,040.00</b>
Amount to be refunded				\$
Amount to be charged				\$ 1,040.00

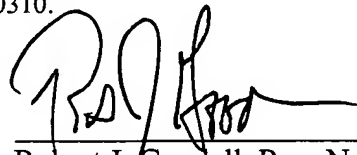
- a. ☐ A check in the amount of \$\_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 50-0310 in the amount of **\$1,040.00** to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. § 1.16 and § 1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0310.

Date: January 21, 2005

Customer No. 09629

**SEND ALL CORRESPONDENCE TO:**

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